



# MIAMI BEACH

## Building Department Plan Review Checklist Discipline: Fire - Sprinkler System

Permit No.

Yes	No	N/A	Comment Ref	Description	Code Reference
<b>FIRE SPRINKLER PLAN REVIEW:</b>					
<i>General</i>					
			FSP - 1	Are sprinkler plans signed & sealed by a Florida Registered Engineer? (required if the scope is greater than 49 heads)	F.S. 633
			FSP - 2	Is the applicable code and edition correct and shown on plans?	City of MB
			FSP - 3	Does the Site drawing indicate the point of service from City main, and locations of the Backflow Preventer, Post Indicator Valve and Fire Hydrants?	City of MB
			FSP - 4	Is the backflow shown on the plans the correct type?	City of MB
			FSP - 5	Do the plans show pipe dimensions and diameter?	City of MB
			FSP - 6	Do the plans show riser locations and dimensions and is the riser accessible?	City of MB
			FSP - 7	Is the outside bell shown on the plans?	NFPA 13
			FSP - 8	Are the hanger locations, hanger detail, valves and sprinkler layout clearly shown on the plans?	NFPA 13
			FSP - 9	Are the water flow devices and tamper switches shown on plans? (Including those required at the Backflow and PIV)	NFPA 13
			FSP - 10	Is the inspector's tests shown on the plans and is it remote from riser?	NFPA 13
			FSP - 11	Is the location of the FDC shown on the plans and complies with distance to hydrant?	NFPA 13
			FSP - 12	Does the FDC has 7.5 ft clearance on each side?	NFPA 1
<i>System Type</i>					
			FSP - 13	Is it noted that where a pipe cannot be maintained above 40 F that adequate freeze protection provisions will be included?	NFPA 13
			FSP - 14	Is the type of system appropriate for the specified application?	NFPA 13
			FSP - 15	Does the system have an electronically monitored alarm valve or water flow device?	NFPA 13
			FSP - 16	Is there 100% sprinkler protection?	NFPA 13
<i>Hazard Classification</i>					
			FSP - 17	Does the hazard classification correspond to the potential fuel load?	NFPA 13
			FSP - 18	Is the design density consistent with code classifications?	NFPA 13
			FSP - 19	Are the sprinkler zones less than the maximum size permitted?	NFPA 13
<i>Hydraulic Calculations</i>					
			FSP - 20	Are hydraulic calculations and fire flow test results within 6 months included?	NFPA 13
			FSP - 21	Is hydraulic nodal information shown on plans?	NFPA 13
			FSP - 22	Is the calculated zone (design area) the most hydraulically demanding?	NFPA 13
			FSP - 23	Does the zone contain the correct number of heads?	NFPA 13
			FSP - 24	Do the calculations use the correct C factor?	NFPA 13
			FSP - 25	Does the supply curve exceed the system demand?	NFPA 13
			FSP - 26	Do the drawings appear to match the hydraulic calcs?	NFPA 13



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				<b>FIRE SPRINKLER PLAN REVIEW(cont):</b>	
				<i><b>Sprinklers</b></i>	
			FSP - 27	Is there a legend identifying type of head, temperature rating, etc.?	NFPA 13
			FSP - 28	Is temperature rating adequate for the environment?	NFPA 13
			FSP - 29	Have corrosion resistant heads been specified for all exterior locations?	NFPA 13
			FSP - 30	Are quick response sprinklers used on light hazard occupancy?	NFPA 13
			FSP - 31	If applicable, does the dry system have uprights or return bends with pendants?	NFPA 13
			FSP - 32	Is the distance between sprinklers less than or equal to 15 ft.?	NFPA 13
			FSP - 33	Is the area of coverage per sprinkler less than the maximum permitted?	NFPA 13
			FSP - 34	Are the sprinklers less than 7'-6" from a wall unless by exception small room allowing up to 9'?	NFPA 13
			FSP - 35	Do obstructions such as columns and beams have additional heads for the required coverage?	NFPA 13
			FSP - 36	Have additional heads been provided where the soffits obstruct sprinkler discharge?	NFPA 13
			FSP - 37	Have provisions been made to drain all parts of the system?	NFPA 13
			FSP - 38	If there are elevator shafts or chutes, are they sprinkler protected?	NFPA 13
			FSP - 39	Are all concealed spaced sprinkler protected unless excluded by code?	NFPA 13
			FSP - 40	If there are vaults, are they protected in accordance with code?	NFPA 232
				<i><b>Standpipes/Mains</b></i>	
			FSP - 41	If the bldg exceeds 2 stories and more than 50' in height, or exceeds 30' to the highest occupiable floor, is a standpipe Class I system installed?	NFPA 14
			FSP - 42	Does the standpipe have 2-1/2" hose valves with 1-1/2" reducers?	NFPA 14
			FSP - 43	Does the FDC have a check valve?	NFPA 14
			FSP - 44	If a standpipe is required, do the fire hose valves provide coverage within 200' of hose?	NFPA 14
			FSP - 45	Are the fire hose valves located at the intermediate landings of the stairs?	NFPA 14
			FSP - 46	If a combined system is used in a high-rise, does each floor have a separate control valve and flow switch?	NFPA 14
			FSP - 47	Is the dedicated standpipe riser at least 4" and combination risers at least 6" in diameter?	NFPA 14
			FSP - 48	Does the remote riser have two 2-1/2" outlet on the roof?	NFPA 14
			FSP - 49	Do stairs with access to the roof have an outlet at the highest landing, and stairs without roof access have an outlet on the roof?	NFPA 14
			FSP - 50	Do the calculations indicate at least 100 psi at the roof manifold of the most remote riser?	NFPA 14
			FSP - 51	Does the system have a pressure reducing valves for fire hose connections and sprinkler line if the pressure exceeds 175 psi?	NFPA 14
			FSP - 52	Is there a test riser for PRV's and are the sizes shown?	NFPA 14
			FSP - 53	Does the supply curve exceed the demand when flowing 1000 gpm?	NFPA 14
			FSP - 54	Does standpipe show a minimum residual pressure of 100 psi at remote and adequate volume for each standpipe?	NFPA 14



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				<b>SPRINKLER PLAN REVIEW</b> (cont.):	
				<i>Fire Pumps</i>	
			FSP - 55	Do the drawings indicate the installation of the fire pump in compliance with the code?	NFPA 20
			FSP - 56	Does the fire pump room contain adequate drainage?	NFPA 20
			FSP - 57	Does the fire pump room have adequate emergency lighting?	NFPA 20
			FSP - 58	If electric driven, does the fire pump have a reliable power source?	NFPA 20
			FSP - 59	If a secondary power supply is required, has it been provided?	NFPA 20
			FSP - 60	If diesel driven, does the fire pump have sufficient fuel, battery, and exhaust capacity?	NFPA 20
			FSP - 61	Does the drawing show the required fire pump bypass?	NFPA 20
			FSP - 62	Is the fire pump room free of exposures and separated by 2-hr rated construction?	NFPA 20
			FSP - 63	Does the fire pump room have sprinkler protection?	NFPA 20
			FSP - 64	Does the fire pump suction have an eccentric reducer?	NFPA 20
			FSP - 65	Are elbows parallel to horizontal fire pumps at least a distance of 10 times the intake diameter from the pump suction?	NFPA 20
			FSP - 66	Is the Fire Pump Room free from any electrical or plumbing conduits running through it?	NFPA 20
				<i>Equipment Submittals</i>	
			FSP - 67	Are the products listed or approved for the application?	City of MB
			FSP - 68	Do the sprinklers cut sheets correspond with the hydraulic calcs and drawings and do they provide the adequate coverage?	City of MB
			FSP - 69	Are the correct temperatures and orientation specified for each sprinkler?	City of MB
			FSP - 70	Are all control valves and flow indicating devices electronically monitored?	City of MB

